

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: March 26, 2004, 01:42:25 ; Search time 137 Seconds

(without alignments)
1492.378 Million cell updates/sec

Title: US-09-805-020-72

Perfect score: 3506

Sequence: 1 MSPFLRLGSLNPDGSCQSC.....LVSLFLVSNLVANNDDY 648

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTREMBL_25:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mmc:*
- 8: sp_organelle:*
- 9: sp_plant:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriopl:*
- 17: sp_archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2844	81.1	571	11	Q8CAV6
2	2293	65.4	469	11	Q8C3L7
3	2120	60.5	683	13	Q7SZH8
4	2100	59.9	683	13	Q7SZH7
5	2045.5	58.3	676	4	Q6EXI6
6	2018.5	57.6	684	13	Q7ZUC5
7	1757	50.1	464	11	Q8DUN7
8	1566.5	44.7	487	11	Q8DUN7
9	1491	42.5	724	5	O61225
10	1447	41.3	763	5	O6XKX6
11	1345	38.4	754	5	O6XKX6
12	1290.5	35.8	707	5	Q2Q953
13	1247.5	35.6	683	11	Q6KX28
14	1241.5	35.4	683	11	Q8HE03
15	1235	35.2	661	5	O01669
16	1166.5	33.3	670	13	Q7SY24

17	1160	33.1	670	13	Q8JFZ9	Q8JFZ9
18	1145	32.7	756	5	O61224	scypa raph
19	1144.5	32.6	680	5	P90980	caenorhabd
20	1144.5	32.6	680	5	Q8M088	caenorhabd
21	1144.5	32.6	682	5	Q8M087	caenorhabd
22	1144.5	32.6	682	5	P90981	caenorhabd
23	1144.5	32.6	936	5	Q19024	caenorhabd
24	1129	32.2	668	13	Q7ZUC5	Q7ZUC5
25	1097	31.3	670	5	O01715	hydra atten
26	1076.5	30.7	674	5	O01716	hydra atten
27	1070.5	30.5	554	5	O95778	drosofila
28	1067	30.4	673	5	O62567	suberites d
29	998	28.5	677	5	O96897	geodia cydo
30	975	27.8	685	5	O76850	calliphora
31	949.5	27.1	1035	3	Q8E2V2	picilia past
32	892	25.4	1161	3	Q8J213	kluyveromyc
33	885	25.2	1157	3	Q9HP10	blumeria gr
34	883	25.2	1194	3	Q9Y792	sporothrix
35	871.5	24.9	1170	3	Q9UYJ5	botrytis cl
36	860.5	24.5	1185	3	Q873Y9	leptosphaer
37	857	24.4	1136	3	Q9HGX8	tuber borcha
38	853	24.3	1182	3	Q9Y7C1	magnaporthe
39	850	24.2	697	5	O96942	rhabdocalyp
40	848.5	24.2	447	5	O86M17	branchiosto
41	845	24.1	991	3	O96VFE	tuber magna
42	775	22.1	442	13	Q801L5	scyliorhinu
43	739.5	21.1	606	5	Q9V782	drosofila
44	739.5	21.1	606	5	O9G523	drosofila
45	739.5	21.1	606	5	Q8MT38	drosofila

ALIGNMENTS

RESULT 1

Q8CAV6 PRELIMINARY; PRT; 571 AA.

AC Q8CAV6;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Protein kinase C.
 GN A130035A12RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Thymus;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium.
 RA the RIKEN Genome Exploration Research Group Phase I & II Team.
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs."
 RL Nature 420:563-573 (2002).
 DR EMBL; AK037664; BAC23843.1; -
 DR MGD; MGI:2442369; A130035A12RIK.
 DR GO; GO:0005524; P:ATP binding; IEA.
 DR GO; GO:0005489; P:electon transporter activity; IEA.
 DR GO; GO:0004674; P:protein serine/threonine kinase activity; IEA.
 DR GO; GO:0004713; P:protein-tyrosine kinase activity; IEA.
 DR GO; GO:0006118; P:electon transport; IEA.
 DR GO; GO:0007242; P:intracellular signaling cascade; IEA.
 DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
 DR InterPro; IPR008973; C2_CaB.
 DR InterPro; IPR002219; DAG_Pe-bind.
 DR InterPro; IPR000719; Prot_kinase.
 DR InterPro; IPR002250; Ser_Thr_kinase.
 DR InterPro; IPR008271; Ser_Thr_kinase.
 DR InterPro; IPR001245; Tyr_kinase.
 DR Pfam; PF00130; DAG_Pe-bind; 2.

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OM protein - protein search, using sw model

Run on: March 25, 2004, 23:31:44 ; Search time 140 Seconds

(without alignments)
1307.791 Million cell updates/sec

Title: US-09-805-020-72

Perfect score: 3506

Sequence: 1 MSPFLRLGLNPFQSGSCSC.....LVSEFLVSNLHVANDY 648

Scoring table:

BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: Geneseq_29Jan04:*
2: geneseqp1980s:*
3: geneseqp1990s:*
4: geneseqp2000s:*
5: geneseqp2001s:*
6: geneseqp2002s:*
7: geneseqp2003s:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3506	100.0	648	5	ABG79705 Tumour in
2	3344	95.4	615	5	ABG79705 Tumour in
3	3337	95.2	706	4	ABG62870 Amino aci
4	3337	95.2	706	6	ABP56907 Human pro
5	3327	94.9	706	6	ABG60648 Human pro
6	3327	94.9	706	6	ABR63656 Human pro
7	2057.5	58.7	673	7	ADBS7523 Rat Prote
8	2057.5	58.7	673	7	ADBS7523 Rat Prote
9	2037.5	58.1	676	4	AAAB4037 Human pro
10	1499	42.8	704	3	AAI91091 Caenorhab
11	1499	42.8	704	3	AAI91091 Caenorhab
12	1343	38.3	567	3	AAI95506 C. elegan
13	1343	38.3	567	3	AAI95507 C. elegan
14	1298.5	37.0	737	5	AAO18490 Human ins
15	1298.5	37.0	737	5	AAO18490 Human ins
16	1298.5	37.0	737	7	ADBS7469 Human pro
17	1298.5	37.0	737	7	ADBS7469 Human pro
18	1298.5	37.0	737	7	ADBS7469 Human pro
19	1298.5	37.0	737	7	ADBS7469 Human pro
20	1298.5	37.0	737	7	ADBS7469 Human pro
21	1296.5	37.0	737	6	ADBS7469 Human pro
22	1296.5	37.0	737	6	ADBS7469 Human pro
23	1290.5	36.8	737	7	ADBS7469 Human pro
24	1290.5	36.8	737	7	ADBS7469 Human pro
25	1290.5	36.8	737	7	ADBS7469 Human pro

26	1290.5	36.8	737	7	ADBS7539 Rat Prote
27	1290.5	36.8	737	7	ADBS7527 Rat Prote
28	1278.5	36.5	739	4	ABBS8410 Drosophil
29	1281	35.7	682	5	AAO18491 Human ins
30	1241.5	35.4	683	7	ADBS7371 Nuclea f
31	1199.5	34.2	522	7	ADBS7369 Nuclea f
32	1170	33.4	672	3	AAI93259 CDNA enco
33	1170	33.4	672	4	AAI93259 CDNA enco
34	1170	33.4	681	4	ABG06337 Novel hum
35	1169	33.3	672	2	AAI94765 Type III
36	1166	33.3	672	2	AAI94765 Type III
37	1163	33.2	672	2	AAI94765 Type III
38	1157.5	33.0	671	7	ADBS65843 Human alp
39	1157.5	33.0	671	7	ADBS65843 Human alp
40	1157.5	33.0	671	7	ADBS65843 Human alp
41	1157.5	33.0	673	6	AAO29576 Human PC4
42	1157.5	33.0	673	6	AAO29576 Human PC4
43	1157.5	33.0	918	3	AAI70784 EGFP-PKCb
44	1155	32.9	672	5	ABBS7302 Mouse lsc
45	1155	32.9	916	2	AAW85023 Amino aci

ALIGNMENTS

RESULT 1

ABG79705 standard; protein; 648 AA.

ABG79705;

15-NOV-2002 (first entry)

Tumour involved gene (TIG) splice variant protein, NV-36.

Human; splice variant; tumour-involved gene; TIG;

pharmaceutical composition; cancer; diagnostic; tumour; gene therapy;

endothelial cell; cell differentiation; cell proliferation; apoptosis;

gene therapy.

Hom sapiens.

US2002086384-A1.

04-JUL-2002.

13-MAR-2001; 2001US-00805020.

14-MAR-2000; 2000IL-00135402.

16-MAY-2000; 2000IL-00136154.

(LEVI/) LEVINE Z.

(DAVI/) DAVID A.

(ROMA/) ROMANO C.

(BERN/) BERNSTEIN J.

Levine Z, David A, Romano C, Bernstein J;

WPI; 2002-635679/68.

N-PSDB; ABB55235.

Novel nucleic acid sequence, which is an alternative splicing variant of

tumor involved gene, useful for detecting cancer, predisposition to

cancer, for evaluating cancer state and in gene therapy for treating

cancer.

Claim 4; Page 105-107; 180pp; English.

The invention discloses isolated human nucleic acid alternative splicing variants that are all tumour-involved genes (TIGs). The nucleic acids and polypeptides are useful for determining the level of a nucleic acid or polypeptide in a biological sample, for detecting a variant nucleic acid or polypeptide sequence in a biological sample, for determining the level

CC of variant nucleic acid or polypeptide sequences in a biological sample
 CC and for determining the ratio between the level of variant sequence in a
 CC first biological sample and the level of the original sequence from which
 CC the variant has been varied by alternative splicing in a second
 CC biological sample and for raising antibodies. A pharmaceutical
 CC composition comprising a carrier and the nucleic acid, is useful for
 CC treating diseases (e.g. cancer) that can be ameliorated or cured by
 CC increasing or decreasing the level of the encoded protein. The nucleic
 CC acids are also useful for diagnostic purposes, especially for detecting
 CC cancer or a predisposition to cancer, for evaluating the state or
 CC aggressiveness of cancer disease, in basic research, for understanding
 CC the physiological function of the original TIG, in targeting or
 CC developing pharmaceuticals, for distinguishing various stages in the life
 CC cycle of the same type of cells which may be helpful for the development
 CC of pharmaceuticals for various cancer stages in which cell cycle is non-
 CC normal, for determining mutations in tumour-involved genes and in gene
 CC therapy. The polypeptides are useful for identifying compounds capable of
 CC binding to the variant product and modulating its activity and for
 CC modulating endothelial differentiation and proliferation, as well as to
 CC modulate apoptosis either ex vivo or in vivo. The sequences presented in
 CC ABG796700-ABG79705 are the new variants (NV) 1-36 proteins of the TIGs
 CC disclosed

XX Sequence 648 AA;

Query Match 100.0%; Score 3506; DB 5; Length 648;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 648; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSPFRLGLSNPDSCSCSCGGEANPFCATLYEYVSENGWYIQCKPMTPEPMTSTF 60
 DB 1 MSPFRLGLSNPDSCSCSCGGEANPFCATLYEYVSENGWYIQCKPMTPEPMTSTF 60
 QY 61 DAHINKGRVMQIIVKGNVDLISSETTVLVLAEKCRKNKKTIMLELKQSGMLNAR 120
 DB 61 DAHINKGRVMQIIVKGNVDLISSETTVLVLAEKCRKNKKTIMLELKQSGMLNAR 120
 QY 121 YFLKSDTKDNNEFTGEPFALHQRGAIKQAKVHVKCHEFTATPPQPCSCVCFEV 180
 DB 121 YFLKSDTKDNNEFTGEPFALHQRGAIKQAKVHVKCHEFTATPPQPCSCVCFEV 180
 QY 121 YFLKSDTKDNNEFTGEPFALHQRGAIKQAKVHVKCHEFTATPPQPCSCVCFEV 180
 DB 121 YFLKSDTKDNNEFTGEPFALHQRGAIKQAKVHVKCHEFTATPPQPCSCVCFEV 180
 QY 181 WGLNKQGYOCRCQNAHKKCIDKVIACGSAINSRETMHKEKRPKIDMHRKQVNYK 240
 DB 181 WGLNKQGYOCRCQNAHKKCIDKVIACGSAINSRETMHKEKRPKIDMHRKQVNYK 240
 QY 241 SPTFCEHCGTLLWGLARQGLKDCAGNANHRCQTKVANIICINQKMAELAMIESSTQ 300
 DB 241 SPTFCEHCGTLLWGLARQGLKDCAGNANHRCQTKVANIICINQKMAELAMIESSTQ 300
 QY 301 ARCLADTQIFREGVEIGLPCSIKNKARPCLPTPGKREPOGISWSPSLDEVVKMCHLP 360
 DB 301 ARCLADTQIFREGVEIGLPCSIKNKARPCLPTPGKREPOGISWSPSLDEVVKMCHLP 360
 QY 361 EPELNKRPBQIKIKIEDFILHAKMLGKSGFKVFLAEFKTNPFAIKALKDOVVLMD 420
 DB 361 EPELNKRPBQIKIKIEDFILHAKMLGKSGFKVFLAEFKTNPFAIKALKDOVVLMD 420
 QY 421 DVECTMVKRYVLSLAMEHPELTMECTEOTKENLFFWVEYINGDMLWYHOSCHKPLSR 480
 DB 421 DVECTMVKRYVLSLAMEHPELTMECTEOTKENLFFWVEYINGDMLWYHOSCHKPLSR 480
 QY 481 ATFAAIIILLOPLHSGKIYVRDLKDNILLDKQHKIADPFQMKENMLGDAKNTFC 540
 DB 481 ATFAAIIILLOPLHSGKIYVRDLKDNILLDKQHKIADPFQMKENMLGDAKNTFC 540
 QY 541 GTPDIYAIPELLGQKYNHSDVMWSPGYVLYEMLLGQSPFHGQDEELPHSIRMDNPPYR 600
 DB 541 GTPDIYAIPELLGQKYNHSDVMWSPGYVLYEMLLGQSPFHGQDEELPHSIRMDNPPYR 600
 QY 601 WLEKAKOLLVVRSEAKSVFIRALGLVSLFLVSNLNVANDYY 648
 DB 601 WLEKAKOLLVVRSEAKSVFIRALGLVSLFLVSNLNVANDYY 648

RESULT 2
 ABG79678
 ID ABG79678 standard; protein; 615 AA.
 XX
 AC ABG79678;
 XX
 DT 15-NOV-2002 (first entry)
 XX
 DE Tumour involved gene (TIG) splice variant protein, NV-9.
 XX
 KM Human; splice variant; tumour-involved gene; TIG;
 KM pharmaceutical composition; cancer; diagnostic; tumour; gene therapy;
 KM endothelial cell; cell differentiation; cell proliferation; apoptosis;
 KM gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN US2002086384-A1.
 XX
 PD 04-JUL-2002.
 XX
 PF 13-MAR-2001; 2001US-00805020.
 XX
 PR 14-MAR-2000; 2000IL-00135402.
 PR 16-MAY-2000; 2000IL-00136154.
 XX
 PA (LEVIT/) LEVINE Z.
 PA (DAVIT/) DAVID A.
 PA (ROMA/) ROMANO C.
 PA (BERN/) BERNSTEIN J.
 PI Levine Z, David A, Romano C, Bernstein J;
 XX
 DR WPI: 2002-635679/68.
 DR N-PSDB; ABS65208.
 XX
 PT Novel nucleic acid sequence, which is an alternative splicing variant of
 PT tumor involved genes, useful for detecting cancer, predisposition to
 PT cancer, for evaluating cancer state and in gene therapy for treating
 PT cancer.
 XX
 PS Claim 4; Page 73-75; 180pp; English.
 XX
 CC The invention discloses isolated human nucleic acid alternative splicing
 CC variants that are all tumour-involved genes (TIGs). The nucleic acids and
 CC polypeptides are useful for determining the level of a nucleic acid or
 CC polypeptide in a biological sample, for detecting a variant nucleic acid
 CC or polypeptide sequence in a biological sample, for determining the level
 CC of variant nucleic acid or polypeptide sequences in a biological sample
 CC and for determining the ratio between the level of variant sequence in a
 CC first biological sample and the level of the original sequence from which
 CC the variant has been varied by alternative splicing in a second
 CC biological sample and for raising antibodies. A pharmaceutical
 CC composition comprising a carrier and the nucleic acid, is useful for
 CC treating diseases (e.g. cancer) that can be ameliorated or cured by
 CC increasing or decreasing the level of the encoded protein. The nucleic
 CC acids are also useful for diagnostic purposes, especially for detecting
 CC cancer or a predisposition to cancer, for evaluating the state or
 CC aggressiveness of cancer disease, in basic research, for understanding
 CC the physiological function of the original TIG, in targeting or
 CC developing pharmaceuticals, for distinguishing various stages in the life
 CC cycle of the same type of cells which may be helpful for the development
 CC of pharmaceuticals for various cancer stages in which cell cycle is non-
 CC normal, for determining mutations in tumour-involved genes and in gene
 CC therapy. The polypeptides are useful for identifying compounds capable of
 CC binding to the variant product and modulating its activity and for
 CC modulating endothelial differentiation and proliferation, as well as to
 CC modulate apoptosis either ex vivo or in vivo. The sequences presented in
 CC ABG796700-ABG79705 are the new variants (NV) 1-36 proteins of the TIGs
 CC disclosed
 SO Sequence 615 AA;

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OM nucleic - nucleic search, using sw model

Run on: March 25, 2004, 16:38:50 ; Search time 952 Seconds
(without alignments)

10508.935 Million cell updates/sec

Title: US-09-805-020-36

Perfect score: 2355
Sequence: 1 gaattccgcagcccccga.....ctccaaacataaaggga 2355

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :
1: N_Geneseq_29Jan04:*
2: geneseqn1980s:*
3: geneseqn1990s:*
4: geneseqn2000s:*
5: geneseqn2001s:*
6: geneseqn2002s:*
7: geneseqn2003as:*
8: geneseqn2003bs:*
9: geneseqn2003cs:*
10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2355	100.0	2355	6	ABs65235
2	2331	99.0	2369	6	ABs65208
3	1927.2	81.8	2754	4	AAf59810
4	1927.2	81.8	2754	4	ABf67085
5	1927.2	81.8	2754	8	ACG85477
6	1927.2	81.8	2754	9	ADb84903
7	1857.4	78.9	2705	3	AAf35299
8	1857.4	78.9	2705	3	AAf21421
9	1857.4	78.9	2705	5	AAH42213
10	1857.4	78.9	2705	7	ABz297115
11	1857.4	78.9	2705	7	ABz292924
12	1857.4	78.9	38644	3	AAA35302
13	1857.4	78.9	38644	3	AAf21424
14	1857.4	78.9	38644	7	ABz297118
15	1850.4	78.6	2658	5	AAH42214
16	1836.4	78.0	2121	6	ABV78235
17	1836.4	78.0	2121	6	ABz35811
18	1836.4	78.0	2121	6	ABX10054
19	1836.4	78.0	2121	6	ABf191776
20	685.8	29.1	2909	7	AAO01758
21	685.8	29.1	2909	7	ABT41763
22	685.8	29.1	2909	7	ADb53627
23	682.6	29.0	2891	2	AAQ57016

24	670.2	28.5	2104	3	AAA35290	AAa35290	Human	ade
25	670.2	28.5	2104	4	AAf21412	AAf21412	Human	low
26	670.2	28.5	2104	4	AAc84222	AAc84222	Human	pro
27	670.2	28.5	2104	7	ABz97106	ABz97106	Human	nuc
28	664.4	28.2	2031	6	ABV78229	ABV78229	Human	PKC
29	664.4	28.2	2031	6	ABz35805	ABz35805	Human	PKC
30	664.4	28.2	2031	6	ABX10048	ABX10048	Human	PKC
31	664.4	28.2	2031	6	ABf191770	ABf191770	Human	pol
32	632.4	26.9	2163	3	AAA35289	AAA35289	Human	ade
33	632.4	26.9	2163	3	AAf21411	AAf21411	Human	low
34	632.4	26.9	2163	6	ABK83588	ABK83588	Human	CDN
35	632.4	26.9	2163	7	ABz97105	ABz97105	Human	nuc
36	389	16.5	1423	3	AAf35292	AAf35292	Human	ade
37	389	16.5	1423	7	AAf21414	AAf21414	Human	low
38	389	16.5	1423	7	ABz97108	ABz97108	Human	nuc
39	376	15.0	2274	8	AAQ57014	AAQ57014	PKC	eps11
40	374.4	15.9	2274	8	ADA50078	ADA50078	Protein	k
41	374.4	15.9	2274	9	AAf35293	AAf35293	Human	ade
42	374.2	15.9	2244	3	AAf21415	AAf21415	Human	low
43	374.2	15.9	2244	6	AAf48609	AAf48609	Human	ins
44	374.2	15.9	2244	6	ABz97109	ABz97109	Human	nuc
45	374.2	15.9	2244	7				

ALIGNMENTS

RESULT 1
ABs65235
ID ABs65235 standard; CDNA; 2355 BP.
XX
AC
XX
DT 15-NOV-2002 (first entry)
DE CDNA encoding tumour involved gene (TIG) splice variant, NV-36.
XX
XX Human; ss; gene; splice variant; tumour-involved gene; TIG;
KW pharmaceutical composition; cancer; diagnostic; tumour; gene therapy;
KW endothelial cell; cell differentiation; cell proliferation; apoptosis;
KW gene therapy.
OS Homo sapiens.
XX
XX US2002086384-A1.
XX
XX PD 04-JUL-2002.
XX
XX PF 13-MAR-2001; 2001US-00805020.
XX
XX PR 14-MAR-2000; 2000IL-00135402.
XX PR 16-MAY-2000; 2000IL-00136154.
XX
XX (LEVI/) LEVINE Z.
XX (DAVI/) DAVID A.
XX (ROMA/) ROMANO C.
XX (BERN/) BERNSTEIN J.
XX
XX Levine Z, David A, Romano C, Bernstein J;
XX WPI, 2002-635679/68.
XX P-PSDB; ABG79705.
XX
XX novel nucleic acid sequence, which is an alternative splicing variant of
XX tumor involved genes, useful for detecting cancer, predisposition to
XX cancer, for evaluating cancer state and in gene therapy for treating
XX cancer.
XX Claim 1, Page 64-65; 180pp; English.
XX
XX The invention discloses isolated human nucleic acid alternative splicing
XX variants that are all tumour-involved genes (TIGs). The nucleic acids and
XX polypeptides are useful for determining the level of a nucleic acid or

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 25, 2004, 17:56:26 ; Search time 9050 Seconds

(without alignments)
11278.767 Million cell updates/sec

Title: US-09-805-020-36

Perfect score: 2355

Sequence: 1 gaattccgcagcccccgcga.....ctccaaacataaagg99ga 2355

Scoring table: IDENTITY_MDC Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 2167151695 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1930.4	82.0	3292	6	AX780110 Sequence
2	1927.2	81.8	2754	6	AR130752 Sequence
3	1927.2	81.8	2754	6	AX334913 Sequence
4	1927.2	81.8	2754	6	AX774806 Sequence
5	1927.2	81.8	2754	9	HMPKCTH
6	1857.4	78.9	2705	9	HMPKCTH
7	1834.8	77.9	3370	9	HSMB07803
8	1474.6	62.6	3313	10	MUSPKCT
9	1474.6	62.6	3313	10	AB062122
10	813.8	31.6	2977	10	AF219629
11	743.6	31.6	2977	10	AB011812
12	712	30.2	2646	10	AB011812
13	691	29.3	2538	10	MNPKCD
14	690	29.3	2564	10	MUSPKCD
15	686.2	29.1	2025	10	AF251036
16	685.8	29.1	2909	6	E02147
17	685.8	29.1	2909	10	RATPKCDA
18	684.2	29.1	2891	6	A37237
19	680.2	28.9	2069	5	AB109739
20	677.4	28.8	2100	5	AB109740
21	673.6	28.6	2693	5	BC043350
22	671.8	28.5	2104	9	HMPKCD13Y
23	670.2	28.5	2104	6	AR153554
24	670.2	28.5	2104	6	BD262869
25	670.2	28.5	2104	6	AR380646
26	670.2	28.5	2104	6	AX771580
27	670.2	28.5	2104	6	AX779875
28	670.2	28.5	2104	9	HMPKCD13X
29	664.4	28.2	2031	6	AX481499
30	664.4	28.2	2031	12	AY335687
31	634.2	26.9	2918	9	BC049327
32	632.4	26.9	2163	9	HMPKSCD
33	592	25.1	189767	2	AL337145
34	590.4	25.1	137072	2	AL333893
35	532	22.6	1848	9	AK130150
36	498.2	21.2	2517	10	BC051416
37	389.4	16.5	3455	3	SRNPCKSR
38	389	16.5	1423	9	HSRKNKDA
39	376	16.0	2235	10	AF028009
40	376	16.0	2707	6	A37235
41	374.4	15.9	2214	10	AF325507
42	374.4	15.9	2274	6	AR282728
43	374.2	15.9	2244	9	HSFKCE
44	372.8	15.8	2704	6	B02148
45	372.8	15.8	2704	10	RATPKCEA

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	ORGANISM	SOURCE	REFERENCE	AUTHORS	TITLE
AX780110	Sequence 2267 from Patent WO03039443.	AX780110	AX780110	AX780110.1	GI:32697104	Homo sapiens (human)	Homo sapiens	1	Hafarlach, T., Schoch, C., Kern, W., Kohlmann, A., Schmittger, S., Dugas, M., Eils, R., Bros, B. and Mergenthaler, S.	Novel genetic markers for leukemias
AX780110	Sequence 2267 from Patent WO03039443.	AX780110	AX780110	AX780110.1	GI:32697104	Homo sapiens (human)	Homo sapiens	1	Hafarlach, T., Schoch, C., Kern, W., Kohlmann, A., Schmittger, S., Dugas, M., Eils, R., Bros, B. and Mergenthaler, S.	Novel genetic markers for leukemias

Pred. No. is the number of results predicted by chance to have a

